

What is claimed is:

1. Plank, comprised of:

a base layer with a thickness ranging from 12 to 25 mm; and

a top layer of solid wood, glued to base layer with a thickness ranging from 4.6 to 6 mm;

5 wherein the base layer is made of a wood based compound, also containing non flammable polymers, hardeners, etc.;

wherein the wood content of the compound is at least 2% by volume and 95% by volume at most, the wood and the polymers being homogeneously distributed or distributed, depending only on the distance, perpendicular to the glued surface; and

10 wherein the glue between base layer and top layer is a non flammable glue.

2. Plank according to claim 1, wherein the base layer has a thickness of about 15 mm.

3. Plank according to claim 1, wherein the top layer has a thickness of about 5.9 mm.

4. Plank according to claim 1, wherein the top layer is made of hardwood.

15 5. Plank according to claim 1, wherein the base layer is made from a material selected from the group consisting of MDF (medium density fiberboard), HDF (high density fiberboard), chipboard, OSB (oriented strand board) and plywood (wood-like anisotropic board materials).

6. Plank according to claim 1, wherein the glue is a polyurethane glue, or an EPI 20 glue.

7. Plank according to claim 1, provided with a technique for mutual joining of planks (like for instance tongue and groove or otherwise).

8. A method of producing a plank according to claim 1, comprising the steps of:

25 providing a base layer with a thickness ranging from 12 to 25 mm, which base layer is made of a wood based compound, also containing non flammable polymers, hardeners etc., wherein the wood content of the compound is 2 % by volume at minimum and 95 % by volume at maximum, wherein the wood and the polymers are homogeneously distributed, or distributed, depending only on the perpendicular distance to the glued surface;

30 providing a top layer made of solid wood with a thickness in the range of 4.6 to 6 mm; and

gluing base layer and top layer together by means of a non flammable glue.

9. A method according to claim 8, wherein base layer and top layer during gluing are pressed together at least for a certain period with a certain pressure higher than 1 bar.

10. A method according to claim 9, wherein mentioned pressure is set between 10 and 100 bar.

5 11. A method according to claim 8, wherein during gluing at least for a certain period, a temperature is set in the range of 10 to 90 °C.